

For Research Use Only

# CD40L/CD154 Monoclonal antibody

Catalog Number: 66502-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 66502-1-Ig	<b>GenBank Accession Number:</b> BC071754	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 959	<b>CloneNo.:</b> 1E6D10
<b>Source:</b> Mouse	<b>Full Name:</b> CD40 ligand	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 261 aa, 29 kDa	
<b>Immunogen Catalog Number:</b> AG24941	<b>Observed MW:</b> 30 kDa	

## Applications

<b>Tested Applications:</b> FC, WB, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, human peripheral blood platelets
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> Human, rat	
<b>Cited Species:</b> human	

## Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33-kd transmembrane homologue or 18-kd soluble form (sCD154). CD40L is primarily expressed on activated CD4+ T cells and on a small proportion of CD8+ T cells and platelets. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. Recent studies have suggested that CD40/CD40L interactions regulate oxidative stress and affect various signaling pathways in both the immunological and the cardiovascular systems. The CD40/CD40L system is also involved in tumorigenesis. Its expression is tightly regulated, and abnormal levels of CD40L are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Multiple mutations in CD40LG gene have been identified that are associated with hyper-IgM immunodeficiency syndrome type 1.

## Notable Publications

Author	Pubmed ID	Journal	Application
YuanPing Hai	36128805	Thyroid	IHC
Nozomu Kurose	31358479	Pathol Res Pract	IHC
Yoshiaki Kobayashi	33647861	Pathol Res Pract	IHC

## Storage

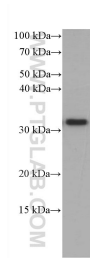
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

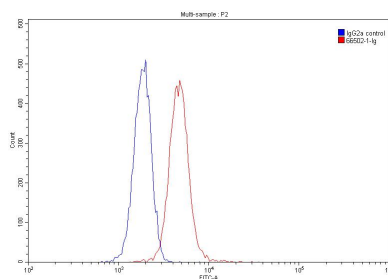
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 66502-1-Ig (CD40L/CD154 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  Jurkat cells were stained with 0.20ug CD40L/CD154 antibody (66502-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.